

ABSTRACT

The present invention discloses a reshaped antibody to human medulloblastoma cells comprising:

- 5 (A) an L chain comprising:
- (1) a human L chain C region, and
 - (2) an L chain V region comprising human L chain FRs and L chain CDRs of mouse monoclonal antibody ONS-M21 to human medulloblastoma cells; and,
- 10 (B) an H chain containing:
- (1) a human H chain C region, and
 - (2) an H chain V region comprising human H chain FRs and H chain CDRs of mouse monoclonal antibody ONS-M21 to human medulloblastoma cells.
- 15 Since the majority of this reshaped human antibody is derived from a human antibody and mouse CDRs have a low level of antigenicity, the reshaped human antibody of the present invention has a low level of antigenicity in humans, and is therefore expected to be useful as a
- 20 therapeutic agent and diagnostic tool for brain tumors such as medulloblastoma which strongly express antigen that is recognized by this antibody.